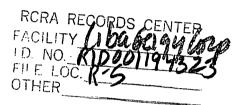


SEMS DocID

642618

REC'D 8-14-87



SAMPLING VISIT TRIP REPORT CIBA-GEIGY CORPORATION CRANSTON, RHODE ISLAND RCRA FACILITY ASSESSMENT

REC'D 3-14-87

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Waste Programs Enforcement Washington, D.C. 20460

Work Assignment No.

EPA Region

Facility I.D. No.

Date Prepared

Contract No.

CDM Federal Programs

Corporation Document No.

Prepared By

Work Assignment Project Manager

Telephone Number

Primary Contact

Telephone Number

265

RID001194323

August 11, 1987

68-01-7331

T265-R01-RT-AWLV-3

Versar Inc.

Dennis Giustra

(703)750-3000

: Frank Battaglia

(617)223-1961

TABLE OF CONTENTS

	Page
1.0 INTRODUCTION	1
2.0 SUMMARY OF SITE ACTIVITIES	8
3.0 PROBLEMS AND RESOLUTIONS	
	9
4.0 CONCLUSIONS	11
TABLES	
 Sample Locations and Collection Times, Ciba-Geigy, Cranston, Rhode Island, June 11-12, 1987 Ground-Water Pipe Vapor Space Readings, HNu vs TIP, Ciba-Geigy Corporation, Cranston, Rhode Island 	4
FIGURES	
1. General Location Map, Ciba-Geigy Corporation, Cranston,	
2. Sampling Locations, Ciba-Geigy Corporation, Grand	2
Rhode Island, June 11-12, 1987	5
ATTACHMENTS	
Attachment A - Photographs taken at Ciba-Geigy, Cranston, Rhode Island, on June 11-12, 1987 Attachment B - Chain-of-Custody Records, Organic Traffic Reports, Inorganic Traffic Report, SAS Packing List, Ciba-G Corporation, Cranston, Rhode Island	eigy

1.0 INTRODUCTION

Versar Inc. received a work assignment (CDM WA No. 265) to assist U.S. EPA Region I by conducting a RCRA facility assessment (RFA) of the Ciba-Geigy Corporation chemical manufacturing plant in Cranston, Rhode Island. The RFA is designed to identify releases or potential releases of hazardous waste requiring further investigations, as necessary, under the RCRA Corrective Action Program. A preliminary RFA report, submitted in June 1987 to U.S. EPA Region I by Versar under the above referenced work assignment, described facility operations and waste handling activities, identified and evaluated the solid waste management units (SWMUs) onsite, and provided recommendations for further action at Ciba-Geigy including a sampling visit (SV) to complete the RFA.

Versar subsequently conducted a visual site inspection (VSI) of the facility to fill in any information gaps remaining after the preliminary review (PR) and to provide specific guidance in developing a sampling visit work plan. The sampling visit is used to fill in data gaps that remain after the completion of the PR and VSI by obtaining sampling and field data. This information is obtained by following the procedures and methods outlined in the SV work plan and is used to determine whether any releases identified warrant further investigations.

The Ciba-Geigy Corporation chemical manufacturing plant is located in a small industrial park area, among residential communities, in the southeast corner of Cranston, approximately 4.5 miles south of downtown Providence (Figure 1). The Ciba-Geigy plant straddles the Pawtuxet River, which is the boundary between the cities of Cranston and Warwick in this area. Ciba-Geigy has 6.8 acres in Cranston which have been used for production, laboratory and pilot plant facilities, and another 5.8 acres which were occupied by a biological wastewater treatment plant. In addition to the property in Cranston, Ciba-Geigy has 27.5 acres in Warwick which have been minimally developed and utilized for cafeteria, locker room, engineering and maintenance facilities, as well as raw material and hazardous waste drum storage.

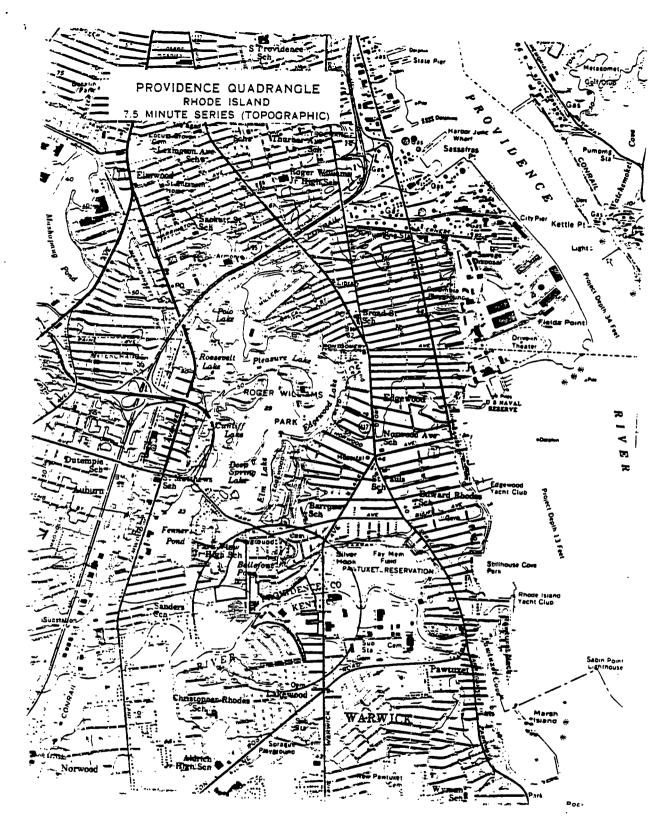


FIGURE 1
GENERAL LOCATION MAP, CIBA-GEIGY CORP.,
CRANSTON, RHODE ISLAND

Ciba-Geigy was permitted to operate as a hazardous waste storage facility under RCRA (EPA ID Number RI D001194323) since 1982 following an interim status. During facility operations numerous hazardous waste streams were generated as part of the batch processes which produced a variety of fine organic chemicals and pharmaceutical products. Chemical manufacturing at the plant site was maintained from 1930 to the present by both Ciba-Geigy and predecessors. As of May 1986 all chemical manufacturing operations at the Ciba-Geigy Cranston plant had ceased. Ciba-Geigy is currently in the process of closing and dismantling the plant.

Table 1 lists the sampling locations and collection times for all samples obtained during the sampling visit. Figure 2 shows the sample locations. All samples collected by Versar were split with Malcolm Pirnie, Inc. of Paramus, New Jersey, environmental consultants for Ciba-Geigy. In addition to Malcolm Pirnie personnel, Versar was accompanied by Mr. William Goff, plant supervisor, during the entire sampling visit.

All ground-water sampling locations and SWMU areas were monitored for organic vapors during the sampling visit using a HNu photoionization unit. No detectable readings, above background, were recorded in the ambient air for all locations where samples were obtained. Instantaneous readings taken within the ground-water pipes to be sampled immediately upon opening did, however, indicate the possible presence of organic vapors above background levels. The locations monitored and the levels detected are listed in Table 2.

HNu readings recorded during the SV are compared to TIP (total ionizables present) readings recorded during the VSI conducted on Friday, May 8, 1987. In general the levels detected are of the same order of magnitude indicating the relative presence of photoionizable constituents within each pipe casing. Deviations in precise readings can be attributable to the relative response of both instruments assuming similar calibrations and similar subsurface concentrations during both

TABLE 1

SAMPLE LOCATIONS AND COLLECTION TIMES, CIBA-GEIGY,
CRANSTON, RHODE ISLAND, JUNE 11-12, 1987

Sample Location	Number of Samples	Collection Times (hours)	Date	Sample Matrix
Main Tank Farm:		-		
SS1, SS2, SS1A	2	1815, 1615 1815	6/11/87	Subsurface soil, grab Subsurface soil, duplicate
Silt Pile:				
\$\$3	1	0800	6/11/87	Surface soil, composite
Monitoring Pipes:				
GW1, GW2, GW3, GW4 GW5, GW6, GW8	7	1715, 1600, 1330, 1130 1430, 0945, 0845	6/11/87	Groundwater, grab
GW2A	1	1600	6/11/87	Groundwater, duplicate
EB1	1	1330	6/11/87	Equipment blank
Pawtuxet River:				
SD3	1 .	1245	6/11/87	Sadimont and
SD1, SD2, SD4	4	1055, 1130, 1150	6/12/87	Sediment, grab
Background:				
BG1	1	1650	6/11/87	Surface soil, grab

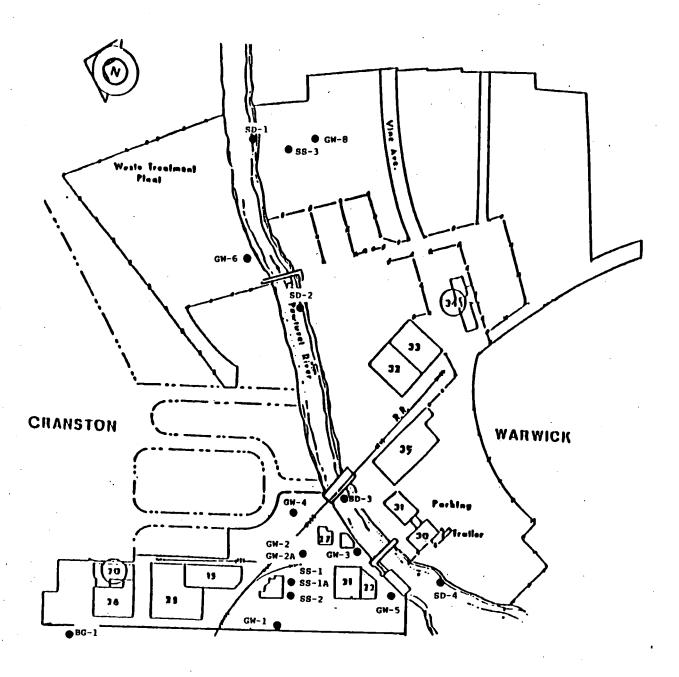


FIGURE 2
SAMPLING LOCATIONS CIBA-GEIGY CORP.,
CRANSTON, RHODE ISLAND
June 11-12, 1987

TABLE 2 GROUND WATER PIPE VAPOR SPACE READINGS HNu (SAMPLING VISIT) vs. T1P (Visual Site Inspection)
CIBA-GEIGY CORPORATION, CRANSTON, RHODE ISLAND

Sampling Location	HN June 1	u 1, 1987	TIP May 8, 1987
GW-1	. 8	ppm	35 40
GW-2		ppm	25-40 ppm
G₩-3		ppm ppm	b 50 100
GW-4	1	ppm	50-100 ppm
GW-5		ppm ppm	5 ppm
GW-6		ppm .	75-90 ppm
G₩-7		ppma .	þ
GW-8	2	ppm ppm	7 ppm 8 ppm

a - pipe did not contain waterb - not monitored during VSI

the SV and VSI. The HNu unit used during the SV contained an 11.7 electron volt (ev) lamp which encompasses the detection of a wider range of organic vapors but lacks sensitivity for those compounds whose photoionization potential is much less than 11.7 ev such as toluene and xylene. The TIP unit used during the VSI contained a 10.2 ev lamp which spans a narrower range of photoionizable constituents with a greater sensitivity to compounds which fall into that range. In either case the readings recorded are qualitative values which consistently reveal the relative presence or organic vapors in each pipe location for each instrument utilized.

Photographs of the facility were obtained during the sampling visit (Attachment A) to further document site conditions and sampling activities. At the time of the sampling visit major demolition efforts were being undertaken by Ciba-Geigy in the former production area of the plant. Conditions throughout the rest of the plant remained virtually unchanged since the visual site inspection conducted on May 8, 1987. Visual evidence of releases from the facility was not readily apparent at locations around the plant.

2.0 SUMMARY OF SITE ACTIVITIES

On Thursday, June 11, 1987, Dennis Giustra, chemical engineer, and Dave Dolak, monitoring specialist, for Versar Inc., traveled to the Ciba-Geigy Cranston plant in order to conduct the sampling visit. A total of 18 environmental samples including QA/QC samples, was collected (9 ground water, 2 surface soil, 3 subsurface soil, and 4 sediment) during the SV which extended until Friday, June 12, 1987. Samples for organic analyses were sent to Toxicon, Inc., Baton Rouge, Louisiana. Samples for inorganic analyses were sent to Cambridge Analytical Services, Boston, Massachusetts. Additionally dioxin and furan analysis of two sediment samples was provided by Cal Analytical Lab, West Sacremento, California. Attachment B contains all organic traffic reports, inorganic traffic reports, SAS packing list, and chain-of-custody records for these samples.

All samples were obtained in general accordance with procedures outlined in the sampling visit work plan submitted by Versar under WA No. 265 on June 5, 1987. Versar arrived onsite at approximately 0700 hours and met briefly with Ciba-Geigy and Malcolm Pirnie personnel to outline the sampling visit approach. Samples were collected from 0800 hours throughout the day until approximately 1815 hours.

Frank Battaglia, U.S. EPA primary contact, arrived onsite around 1100 hours and remained onsite to assist in sampling for the rest of the day. A meeting between Ciba-Geigy, EPA, Versar, and Malcolm Pirnie was held at mid-day on Thursday to discuss any problems encountered, answer questions, and inform Ciba-Geigy of the status of the RFA. Three final river sediment samples were collected on Friday, June 12, 1987, to complete the sampling visit.

3.0 PROBLEMS AND RESOLUTIONS

Problems encountered during the sampling visit involved principally the collection of ground water and river sediment samples. Prior to the sampling visit Malcolm Pirnie had informed Versar that some of the ground-water locations to be sampled were no longer accessible due to demolition activities at the site. Once onsite Versar discovered that only one sampling location, GW-2, located in the southwest corner of the former production area had been demolished. To compensate for the loss of this sampling location, ground-water sample, GW-2, was obtained from another ground-water pipe located near the middle of the production area. Ground-water sample, GW-7, located near the zinc oxide pile on the Warwick side of the facility had to be deleted since the ground-water pipe had silted in and did not contain any water.

During the collection of the initial ground-water sample, GW-8, a three-quarter inch teflon bailer was used to purge water from the pipe. The use of the bailer resulted in a mixing of water with silt in the bottom of the pipe. In order to alleviate this mixing and retrieve water from the pipe in a more efficient fashion a peristaltic pump (ISCO Wastewater Sampler Model 2100) with silicon tubing was used. Use of the pump resulted in a constant flow of ground water due to good recharge in the area, ease of collection, and the collection of a relatively clear, unmixed sample suitable for all analytical parameters. The pump was subsequently used at all ground-water sampling locations changing the silicon tubing between each location to prevent contamination.

The problems encountered while collecting river sediment samples involved both sampling locations and method of collection. One sample, SD-3, was collected using an Ekman dredge from the vehicular bridge across the Pawtuxet River at the facility. This sample location was acceptable but the method of collection awkward.

In order to provide for ease of collection the remaining three sediment samples were collected by wading into the river and scooping sediment from the river bottom using a handmade stainless steel, sediment sampler. This method of sample collection was discussed with and approved by the EPA primary contact, Frank Battaglia. Mr. Battaglia, however, was not onsite while these samples were being collected. Samples obtained in this fashion were approximately 10 feet from the river bank at a depth of 6-12 inches within the sediment. These sediment samples were all collected from the Warwick side of the river. Attempts along the Cranston side near the wastewater treatment outfall resulted in the inability to collect sediment since the river bottom accessible by Versar contained mostly rip-rap from the construction of the river bank by Ciba-Geigy.

Sediment sample, SD-1, was collected from a location downgradient of the wastewater treatment outfall as outlined in the SV work plan. Sample SD-2 was moved downstream near the waste treatment plant bridge. Sample SD-3 was taken downgradient of the plant's original wastewater coffer dam outfall which was found to be located where silt comprising the former silt pile had been dredged from the river between the two upstream facility bridges. Finally sample SD-4 was taken upstream of the facility as originally outlined.

4.0 CONCLUSIONS

The sampling visit conducted by Versar on June 11-12, 1987, was the final step in the RFA process for the Ciba-Geigy Corporation facility in Cranston, Rhode Island. During the SV, environmental samples and field data were collected to fill in data gaps and potentially provide evidence of previously unidentified releases. Potential contaminant migration pathways and environmental receptors from the site were noted. The information obtained prior to and during the SV, together with validated analytical data received from U.S. EPA Region I, will be used to make release determinations and provide recommendations for each SWMU at Ciba-Geigy. A draft final RFA report will be prepared documenting the activities undertaken during the RFA and will include conclusion and final RFA recommendations for further action at the Ciba-Geigy Cranston plant.

ATTACHMENT A

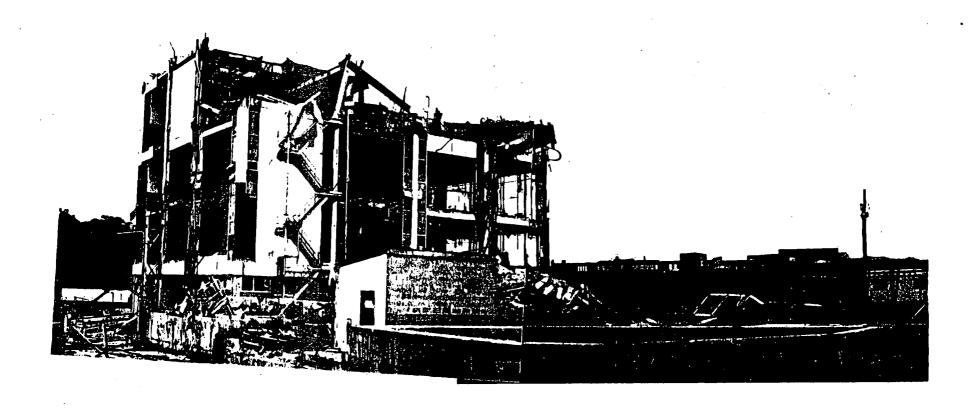
FIGURE A LOCATIONS FROM WHERE PHOTOGRAPHS WERE TAKEN CIBA-GEIGY CORP., SAMPLE VISIT, JUNE 11-12, 1987 WARWICK Vine Ave.



Subject: Location:

Building 21/22 demolition looking south. Ciba-Geigy, Cranston, Rhode Island June 11, 1987

Date: June 11, 198



Subject: Location: Date:

Building 21/22 demolition looking southwest. Ciba-Geigy, Cranston, Rhode Island June 11, 1987



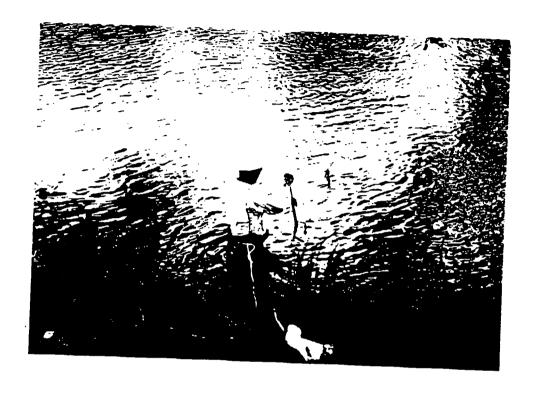
Subject:

Collecting purge water from ground water sampling location

Location:

Ciba-Geigy, Cranston, Rhode Island June 11, 1987

Date:



Subject:

Collecting sediment sample from Pawtuxet River on Warwick

side of facility.

Location:

Ciba-Geigy, Warwick, Rhode Island

Date: June 12, 1987



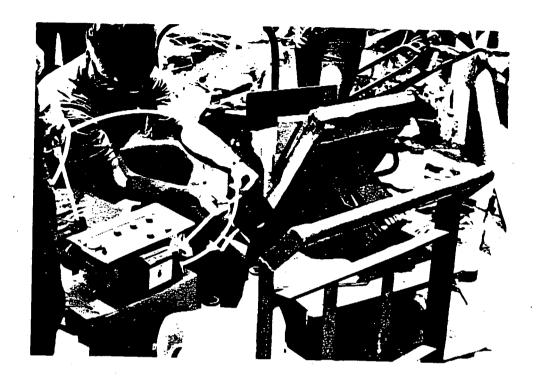
Subject:

Collecting ground water sample for metals analyses from location at the former wastewater treatment plant on site.

Location:

Ciba-Geigy, Cranston, Rhode Island

Date:

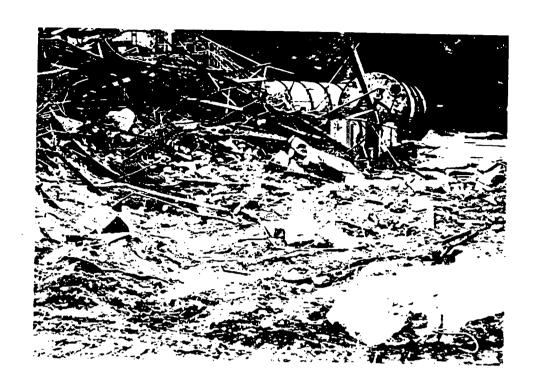


Subject:

Malcolm Pirnie personnel collecting split ground water water sample during Ciba-Geigy sampling visit. Ciba-Geigy, Cranston, Rhode Island

Location:

Date:



Subject:

General location of subsurface soil samples, SS-1, SS-2, adjacent to former main tank farm, looking east.

Location:

Ciba-Geigy, Cranston, Rhode Island.

Date:



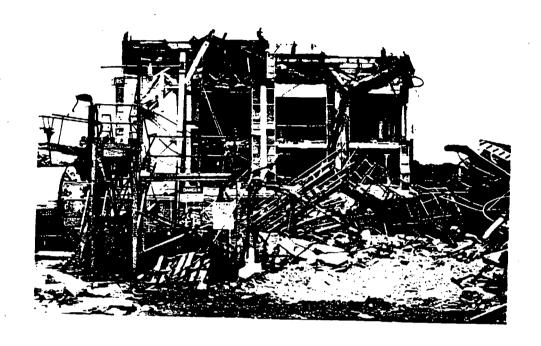
Subject:

Location of groundwater sample, GW-5, near over-the-river tank farm, looking southwest.

Location:

Ciba-Geigy, Cranston, Rhode Island June 11, 1987

Date:



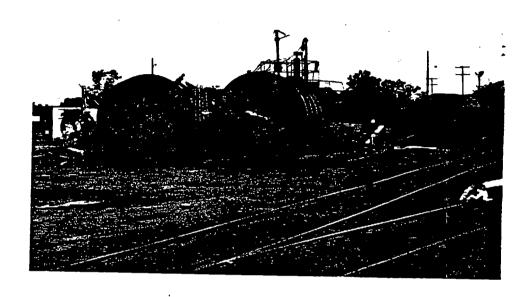
Subject:

View of former main tank farm (foreground) and production building 21/22 (background) looking south.

Location:

Ciba-Geigy, Cranston, Rhode Island June 11, 1987

Date:



Subject:

Bulk storage tanks recently removed from main tank farm looking west.
Ciba-Geigy, Cranston, Rhode Island

Location:

Date:

ATTACHMENT B

Region / Waste Management Division **CHAIN OF CUSTODY RECORD** PROJ. NO. **PROJECT NAME** GIEGY NO. AMPLERS: (Signature) arteur CON-REMARKS 704 TAINERS STA. NO. DATE TIME STATION LOCATION B/11/87 1600 8242 8246 83 11 83 8749 8250 AH 649 6 8936, 8940, 8941, 8943, 8943, 8944 × BH652 GWAA SUPLICATE OF GWA 1600 6 8933, 8934, 8736, 823, 8238, 8237, 8238 × × AH65 1330 EBI EQUIPMENT BLANK X AHBYS ω_3 1330 X b ८७३। ८४९३ ६८५३ ६४३५८३२५८३१ AHH SWS 1430 8715 8116 8717 8918 894 8990 Cm8 2845 b **1**464 6w4 1130 Syng by Roce By Byng byng byng b 6/11/201945 6 8901,8701,8923 8321,8322,8329 6112/87 1055 DOWNSTREAM SEDIMENT AH658 8358.8359 6/12/17/1130 × × A4657 8362 11287 1150 upstream sediment ? AH656 8963 85PA 8265 BACKGROUNS 1650 3 3 SUBSURFACE SOIL diaguished by: (Signeture) Date / Time Received by: (Signature). Relinquished by: (Signeous) Relinquished by: (Signature) Date / Time Received by: (Signature) Relinquished by: (Signeture) Received by: (Signeture). Received for Laboratory by: Date / Time Remarks

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample 1 of agament Office
US ENVIRONMENTAL PROTECTION AGENCY HWI Sample 1 and agencent Office ORGANICS TRAFFIC REPORT

Sample Number
AH 658

1 Case Number:	② SAMPLE C	ONCENTRATI	ON	(1) Ship To:	
1/10		(Check One)			
		Low Concentration			
Sample Site Name/Code		um Concentrati		Pirate Control of the Pirate Control	7:2
CIBA-GEIGY	3 SAMPLE	, gsom translatical. Autrity	30 Per 1	Alm: Le	E K YOD
	(Check (Donal "	t to something		
garante de grande de servicio		ediment		Transfer Ship To	
		ediment		omb.ide	
5 Regional Office: VECKN	0 - 0- 0000.000.	ple collected sp	ecify num	ber	
Sampling Personnel:	of containers on each bottle	used and mark v	rolume lev	el	
D. Twitts	7		ent of Spine	- 13	
Jos 0 1/20 -300		Number of	Approxim	nate.	
(Phone)	Water	Containers	Total Vol	ume.	
Sampling Date:	(Extractable)			integration	
(Begin) (End)	Water (VOA)			And the	
	Soil/Sediment			· ·	
7 Shipping Information	(Extractable)	1 4 5 to 1	8 05		
FED EX	Soil/Sediment	2			
Name of Camer	(VOA) .		807		
6/12/89	Other				
Date Shipped:		Market British		- 13 52 8	
2832004442		1970 2020 		- - -	
Airbill Number:	and the second of the second o	Sund Company in Equipment in		- : .	
Sample Description		archiecan oum oc	(9) Samul	E Location	
Surface Water.	_ Mixed Media	ran samun yaan gas		a mocanon	
The state of the s	/				
Ground Water ✓	_ Solids				
Leachate	\mathcal{L} Other (specify) \mathcal{L}	00			
Werning to the second	2.7x		<u>.</u>		
(e.g., salety precautions, hazarde	tions:	TITTE SACRETAIN N			
1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	د کینشمالده (۱۳۵۵ تا ۱۳۵۱) و مدر ت م نظهم	HOM AGENCY		۵.	

	CS TRAF			on! Office Sample Number
1) Case Number: 7410 Sample Site Name/Cod. CIPA - GEIGY	Low Medi 3 SAMPLE N (Check)	Check One) Concentration ium Concentrati	on SA	
Sampling Personnel: 103-150-3000	O . or organization	used and mark v	Approximate Total Volume	
(Phone) Sampling Date: 612 (Begin) (End)	Water (Extractable) Water (VOA)	Continuiers	TOTAL VOLUME	
7 Shipping Information	Soil/Sediment (Extractable) Soil/Sediment (VOA)	2	8 0Z 8 0Z.	
Name of Carrier by 287	Other		The specific	

2532504442 Airbill Number:

(e.g., salety procautions, hazardous nature

Sample Location

ROTECTION ASILIAS

TED STAN
D-6
And There
7 (40)

US ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office

Sample Number
AH 658

ORGANICS TRAFFIC REPORT

The state of the s	ON TIPE	IIC NEP	Onl		
1 Case Number:	② SAMPLE	ONCENTRAT	ION	4 Ship To:	**************************************
7410		Check One)		DXICO	JUE
Sample Site Name/Code	Low Medi	Concentration ium Concentrati	ion	BATONR	DUCE, LA
CIBA-GEIGY	3 SAMPLE	MATRIX	April 1	Attn:	E KAD
<u> </u>	(Check		n oldin Theilighten	Transfer	
	Water Soil/S	Sediment	O THE WAY	Ship To:	
5 Regional Office: VERSIN	C - or order seri	ple collected sr	ecify nur	nber	
Sampling Personnel:	of containers on each bottle	used and mark v	volume le	vel	
703-950 -3000		Number of Containers	Approxi	mate .	
(Phone) Sampling Date:	Water (Extractable)	Contamiers	TOTAL VO	iume.	
6 12 6 12 (Begin) (End)	Water (VOA)				
(7) Shipping Information	Soil/Sediment (Extractable)		862		
Name of Carrier	Soil/Sediment (VOA)	2	804		
6/(2/87)	Other	ele en la care		 	
Date Shipped:		•	· ·		
<u>J832201447</u>					
Airbill Number:		· · ·		an min	
8 Sample Description	Section 1	wints mornar	9 Sampl	e Location	
Surface Water					
Ground Water	_ Solids				
Leachate Leachate	Other (specify) _				
Special Handling Instruction	hone:		·.	· · · · · · · · · · · · · · · · · · ·	
(e.g., safety precautions fazzado	ne bajare)	inim velme?			

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office

Scample Number
AH 641

			OILI	
① Case Number: 7410		CONCENTRATI Check One)		ip To:
	Low(Concentration	NO)	XICON INC.
Sample Site Name/Codes CIBA-GEIGY	Medu	ium Concentration		
LIBA-178161	3 SAMPLE N		Attn:	LEE KIDD
	<u> </u>		Trans	Sange,
5 Regional Office: Sampling Personnel:	of containers	used and mark v	pecify number	
Di. Tunto	on each bottle).	Region of	
703-0350-3000		Number of Containers		
(Phone) Sampling Date:	Water (Extractable)	4	4 lites	
(Begin) (End)	Water (VOA)	2	Some OS	
7 Shipping Information	Soil/Sediment (Extractable)			
FED EX	Soil/Sediment (VOA)		7.5	
Name of Carrier	Other			
Date Shipped:			#	
2832204442				
Airbill Number:	2 · · · · · · · · · · · · · · · · · · ·	N'		
Sample Description		क्टाम्स्य म्ब्द्रामास्य	Sample Loca	ation × *
Surface Water	Mixed Media		· · · · · · · · · · · · · · · · · · ·	
Ground Water	_ Solids			
	Other (specify)	-		
Special Handling Instruct (e.g., safety precautions, hazardo	tions:		÷	
	no increase	NONTHE STATE		



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office

Sample Number
AH 643

ORGANICS TRAFFIC REPORT

The market of the state of the	Co Inari	IC MIT	Uni			
① Case Number:		CONCENTRATI Check One)	ON	(4) Ship To		2.4
Sample Site Name/Code; CIBA-GEIGY	3 SAMPLE N (Check (Water Soil/S	One)			er Kidd Garge ' Ny Syrch	
Sampling Personnel: 103-Name) - 3000		used and mark v	rolume le	imate		
(Phone) Sampling Date:	Water (Extractable) Water	4	484	i.		
(Begin) (End)	(VOA)	2	50m	ف		
3 Shipping Information	Soil/Sediment (Extractable)					
FED EX	Soil/Sediment (VOA)		-	-		
Name of Carrier	Other			<u> </u>		
Date Shipped:						
2232204442						
Airbill Number:						
Sample Description		ាក់ គ្រាជាប ិស	Samp	ole Location	3	
Surface Water	_ Mixed Media		· .			e.
✓ Ground Water	_ Solids					
Leachate	Other (specify) _				The second secon	
(e.g., salety precautions hazardo	tions:	1000 4753403			-	

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office

Sample Number

ORGANICS TRAFFIC REPORT

A WOLL						
1 Case Number:		ONCENTRATI	ON	(4) Ship To	D:	
7410	(Check One)			ADXIC	IN IN	C
	Low	Low Concentration				
Sample Site Name/Code:	Medi	um Concentrati	on	2410h	Rouce	THE STATE OF
CIBA-GEIGY	3 SAMPLE	MATRIX	•	Attn:	हर (ए	<i>90</i>
	(Check		್ ಅಂಡ್ಡ್ ಪ್ರಾಥಾಗ ಸಂತೇಶ	The State		ريس شا
	Water	7		Transfer		
, , , , , , , , , , , , , , , , , , ,	Soil/S	Sediment		Ship To:		4 th
(5) Regional Office: VE/254	6 For each sam	ple collected sp	ecify nu	mber		
Sampling Personnel:	of containers	used and mark v	olume le	vel		
D. Guston	on each bottle	.		المنافعة المنافعة		
103-01-3000		Number of Containers	Approx Total Vo	imate olume		
(Phone)	Water	4	11 0 0			
Sampling Date:	(Extractable)		14 M			
(Begin) (End)	Water	2	_	^		
	(VOA)		20 W	ينلا		
7 Shipping Information	Soil/Sediment (Extractable)	·				
TED EX	Soil/Sediment (VOA)			_		
Name of Carrier	(1022)	·		- :		
6/12/87	Other					
Date Shipped:	· ···			المتابعة الخمارات		
2832004442		amang a languaga		J. J.		
Airbill Number:		The second secon				
8 Sample Description	#.21 /		Samp	ole Location		
Surface Water				•		
·					ે કે. સેંગ્યુ મેં માન્ય સ્થા	
Ground Water	_ Solids	r ^T		-4. -		
Leachate	Other (specify)		-		·	
हैं हुन्हें स्था		· 				A. Sangar
10 Special Handling Instructions, hazards	tions:	. UOIT WEEKCA	·			
we have distributed in	And the second of the second o	al company and a source	•		<i>:</i>	

	THEO STATES	US ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office ORGANICS TRAFFIC REPORT
		e factorio e manta de emporte de la valenta
1		ORGANICS TRAFFIC REPORT

Scample Number

1 Case Number:		CONCENTRATI Check One)	(4) Ship To	W THE			
Sample Site Name/Code:		Concentration ium Concentrati		o Rouge LA			
CIBA-GEIGY	3 SAMPLE N		Attn:	-BE (120)			
	Water Soil/S	Sediment	Transfer Ship To:				
(5) Regional Office: VERSM	6 For each sam	ple collected st	ecify mu	nher			
Sampling Personnel:	of containers used and mark volume level						
D. Just	on each bottle	·	~~~				
103-0120-3000		Number of Containers	Approxi Total Vo	mate lume			
(Phone) Sampling Date:	Water (Extractable)	4	40	L			
_6 11 6 N	Water		12				
(Begin) (End)	(VOA)	2	108	Q_{\perp}			
7 Shipping Information	Soil/Sediment (Extractable)						
_ FED EX	Soil/Sediment (VOA)						
Name of Carrier	(VUA)		7.				
6/12/87	Other						
Date Shipped:				· ·			
2832004447		**:					
Airbill Number:	•						
Sample Description		/7946	9 Sampl	e Location	446		
Surface Water	Mixed Media						
Ground Water	Solids			Series .			
LeachateOther (specify)							
Special Handling Instruct (e.g., salety precautions, hazaydo)	ions: us pature)	CARGEMON					



Sample Number

ORGANICS TRAFFIC REPORT

NAME OF THE PARTY						
① Case Number: 74(0		CONCENTRATION Check One)	(4) Ship To:			
	/		1 YOXK	SUENC		
Sample Site Name/Code	Low Medi	Concentration um Concentrati	i) ROUGE LA		
CBA-GEIGY	•	e locari i i ma militari.	Attn: LB	EC N B		
	3 SAMPLE					
	(Check	One) Pro sentado ota	Transfer	# 40 m		
	Soil/S	Sediment	Ship To:			
5 Regional Office: PERM	0 - 0 0000 500	ple collected sp	ecify nu	mber		
Sampling Personnel:	of containers used and mark volume level on each bottle.					
atur a	On each pottle	3.		*		
703- (Name) 3000		Number of Containers	Approx Total Vo	imate ohume		
(Phone)	Water	11	1 01			
Sampling Date:	(Extractable)	7	4 W	The same of the sa		
(Begin) (End)	Water (VOA)	2	30,-	e		
7 Shipping Information	Soil/Sediment (Extractable)					
PED EX	Soil/Sediment (VOA)					
Name of Camer	011	·				
6/12/87	Other					
Date Shipped:				·		
2832004442	ra, Sg	. *				
Airbill Number:	to the second of					
8 Sample Description		- Down Brown	9 Samp	le Location		
Surface Water	_ Mixed Media	The second of th	<u> С</u>		•	
✓ Ground Water	_ Solids					
en en de la companya				,		
Leachate	Other (specify)	4.20.			44	
Special Handling Instruct	iona					
(e.g., safety precautions, hazardo	ele neturol		• .			



Scriple Number

ORGANI	CS TRAFF	TC REP	OKT		
1 Case Number:		ONCENTRATI	ON	4 Ship To:	tig⊈ent or general property of the second o
7410		Theck One)		ADXICON) THE
Sample Site Name/Code:		Concentration um Concentration	on	BATON	rouge, la
CIBA-GEIGY	O GIAMITA			Attn: LEE	KAD
	③ SAMPLE M (Check C	 .			
	Water	ediment		Transfer Ship To:	
5 Regional Office: VERSN	6 For each sam	ple collected sp	ecify nun	nber	
Sampling Personnel:	of containers	used and mark v			
arting. C	on each bottle) .	F-2.	74. T	
103-970-3000		Number of Containers	Approxi		
(Phone)	Water (Extractable)	4	# 0,	2	
Sampling Date: 6/11		f	1 1	4W	
(Begin) (End)	Water (VOA)	7	29 W	l	
7 Shipping Information	Soil/Sediment (Extractable)				
KB BX	Soil/Sediment (VOA)				
Name of Carrier	Other				
Date Shipped:					
2832014442					
Airbill Number:	242. 1.35.				
8 Sample Description		STATE OF THE SUITE	Samp	le Location	
Surface Water		· ·		1	
✓ Ground Water	_ Solids	-			
Leachate	Other (specify) _	3.			5.24
HO. Bess of E					12 5 0
10 Special Handling Instruc	tions:				



Sample Number AH 646

1 Case Number:	② SAMPLE	ONCENTRAT	ION	4 Ship To:		
7410		Check One)				
Sample Site Name/Code:	Low Medi	Concentration ium Concentrati		e Kado		
	Water		in macon Mingro	Transfer Ship To:		
(5) Regional Office: VERSAR	O - or order setti	ple collected sp	ecify nu	mber		
Sampling Personnel:	ot containers on each bottle	used and mark v	olume le	vel		
103- (Name) - 3000		Number of Containers	Āpprox Total Vo	imate dume		
(Phone) Sampling Date:	Water (Extractable)					
(Begin) (End)	Water (VOA)		·			
① Shipping Information	Soil/Sediment (Extractable)	ı	& D.	₹.		
FED EX	Soil/Sediment (VOA)	2	8 24	2. .		
Name of Carrier 6 12 87	Other					
Date Shipped:						
2832004442						
Airbill Number:						
Sample Description		m tour rous green	9 Samp	le Location		
Surface Water	Mixed Media		•	•	•	
Ground Water	Solids				· · · · · · · · · · · · · · · · · · ·	
<u> </u>	Other (specify)			•		
D Special Handling Instructions, hazardon	ione: is nature)					



Sample Number
AH 649

① Case Number:	② SAMPLE	CONCENTRATION Check One)	ION	③ Ship To: √0×10×1	NEW
Sample Site Name/Code:	Low Med	Concentration ium Concentrati	ion	BETTON	ROUGEILA
CIBA-GEIGY	3 SAMPLE		*.	Attn: LE	EKOD
	Water Soil/S		Transfer Ship To:		
5 Regional Office: NERSN	6 For each san	ple collected s	recife no	mbon	
Sampling Personnel:	of containers	used and mark	zolume le	vel	
D. Junto	on each bottle	3.		The second second	
103-450-3000		Number of Containers	Approx Total Vo	imate Jume	
(Phone)	Water	41	U 0	L	
Sampling Date:	(Extractable)	1	72	the	
(Begin) (End)	Water (VOA)	2	80 m	L	
(7) Shipping Information	Soil/Sediment (Extractable)				
FED EX	Soil/Sediment (VOA)			eta	
Name of Carrier				A (2) 12	
6/12/87	Other				
Date Shipped:	E.	tw. I e e		-	
78334447		Torque d			
Airbill Number:	ा प्रस् के १८- १९८४				
8 Sample Description		174.5. 174.5. 1 74.5.	Samp	le Location	
Surface Water	_ Mixed Media				
Ground Water	_ Solids			_	
Leachate gua	Other (specify)	90		•	
Special Handling Instruct	-	<u> </u>	·	•	
(e.g., salety precautions, hazardo	icula:	خان معرو مسا			



Scample Number

ONGAIN	Co INAL	fic kep	ORT		- WILLIAMON
① Case Number:	② SAMPLE	CONCENTRAT Check One)	ION	(4) Ship To:	
Sample Site Name/Code:	Low Concentration Medium Concentration 3 SAMPLE MATRIX			STOKICON BASTON A Attn: LEZ	lonce live
	(Check Water Soil/S		9 (8 € 2 € 1 (8 € 2 € 2 € 2 € 2 € 2 € 2 € 2 € 2 € 2 €	Transfer Ship To:	
Sampling Personnel:	O - Or cacri pari	used and mark	volume lev	vel mate	
(Phone) Sampling Date:	Water (Extractable)	Containers	Total Vol	ume	
(Begin) (End)	Water (VOA)	·		• •	
7 Shi pping Information	Soil/Sediment (Extractable)		808	1	
Name of Carrier	Soil/Sediment (VOA)	2	803		
6/12/87	Other				
Date Shipped:		····•			
2832004442					
Airbill Number:-					
Sample Description	A Total	or in the contract.	9 Sample	Location	
Surface Water Ground Water	Mixed Media Solids			*	
Leachate Tour A	_	<u>s</u>		€ . • '	
O Special Handling Instruct (e.g., safety precautions, hazarda	iona: se pature)	ACEACX	ن مارکند مارکند		



Sample Number
AH 652

CIGI-III	CO TIME	TIC NEP	Oni		1,7	4. 17, 2. 2.
① Case Number: 7410		CONCENTRATION Check One)	ON	(4) Ship To		*3
Sample Site Name/Code	Low Medi	Concentration um Concentrati	on	Y dxico	n Sh Roug	人
CIBA-GEIGY	3 SAMPLE N		-	Attn: L	ee Ki)D
	Water Soil/S	Transfer Ship To:		er determinente en		
(5) Regional Office: VELSM Sampling Personnel:	6 For each sam of containers on each bottle	mber vel				
1503000		Number of Containers	Approx Total Vo	imate olume		
(Phone) Sampling Date:	Water (Extractable)	4	42	tens		
6 11 6 11 (Begin) (End)	Water (VOA)	2	801	nl		
7 Shipping Information	Soil/Sediment (Extractable)					
Name of Carrier	Soil/Sediment (VOA)					
6/12/87	Other					
Date Shipped:		·				
2832574442			-			
Airbill Number: 8 Sample Description						
Surface Water	_ Mixed Media	्रभाषां स्थानम् । इत्यान्त्रः	Samp	le Location	`	
	_ Solids			e Na Santana Santana		
(20 = 31 0)	Other (specify)	A(/)		·	. 1	
(e.g., safety precautions, bazardo	icasa (mare)					777

JANEED BYANG	
AND MANAGEMENT	

Scample Number
AH 653

			OIII	
1) Case Number: 740 Sample Site Name/Code: CRA-GEIGY	J Low (Low (Medi SAMPLE M (Check (Water	CONCENTRATI Check One) Concentration ium Concentration MATRIX One)	ION (S	nsier
5 Regional Office: VE/SM Sampling Personnel: D. Sundame 103-Name 103-300		used and mark v	volume level Approximate	
(Phone) Sampling Date: 6 6	Water (Extractable) Water	<u> </u>	TOTAL Y CAME	
(Begin) (End) (Shipping Information	(VOA) Soil/Sediment (Extractable)		8 02.	
Name of Carrier	Soil/Sediment (VOA)	2	802,	
Date Shipped:	Other	·		
2532504442 Airbill Number:				
Sample Description			Sample Location	ation
Surface Water	_ Mixed Media			
Leachate	_ Solids _ Other (specify)	33	. <i>x</i> ·	
Special Handling Instruct (e.g., safety precautions, hazardo				



MRONMENTAL PROTECTION AGENCY HWI Sample Mon a person Office



ORGAN	ICS TRAF	FIC REP	ORT	FALLS OF
(1) Case Number:	② SAMPLE	CONCENTRATI	ON O Ship	To:
NO		Check One)	W. VO	acon income
Samula Sta Name / G	Low Mod	Concentration	August 1997 Augu	
Sample Site Name/Code	TO THE STATE OF TH	ium Concentrati	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n rouce it
CIRA- GEIGY	3 SAMPLE	MATRIX	Aim. Z	ee Kan
Newspatrick (Check		Transfe	
	Water Soil	r Sediment	Ship To	
Section 1		Securioni		
5 Regional Office: VERSA		nple collected sp	ecify number	
Sampling Personnel:	of containers on each bottle	used and mark v	rolume level	
D. Teuston		 संवद् ऋ	e residence and the	
703 (Name) - 30N	1	Number of	Approxima	
(Phone)	Water	Containers	Total Volume	
Sampling Date:	(Extractable)	4	4 25	
6)4	Water	2		
(Begin) (End)		6	Sa Wr	
7 Shipping Information	Soil/Sediment (Extractable)			
FED EX	Soil/Sediment			
Name of Carrier	(VOA)	To the state of th	er activisida	
6/12/89	Other			
D. G.	· 一种 100000000000000000000000000000000000	E DE TOP OUT THE	e tra ce esta	
Date Shipped:		34.		
2832004442	in the second	STOP BEET TO GENERAL	Participation of the second	
Airbal Number:			The same of the sa	
Sample Description	T 接有的现在分词	ार १८ १८ १८ १९ १९ <mark>१० ५५ १५ १५ १५ १५ १५ १५ १५ १५ १५ १५ १५ १५ </mark>		
to the man	<u>-</u>	নু মঞ্জা ন্ত্ৰণ কৰ্ত াই জন্মত্	9 Sample Estati	OR NO.
Surface Water	Mixed Media			
Ground Water				
Leachate	Other (specify)	190 -		
See Dear 110				
(C) Special Handling Instru	Clication and			
(e.g. sales and and have	gote ustrue) PROTE	LOTVENIC		

(2)	ORGANICS TRAFFIC REPORT
	ORGANICS TRAFFIC REPORT



ORGANI	CS TRAF	FIC REP	ORT		AT TO
1 Case Number: 175 1906	② SAMPLE	ONCENTRAT	ON	(1) Ship To:	1947
740		Check One)	MONKOP	THE TE	
Sample Site Name/Code	Low Medi	Concentration um Concentrati	<u>rentasea</u>	BATON RD	USE CA
		mii Concentrati	و محمد	DUST TAKE	7
CIRA-GEIGY	3 SAMPLE		100	Attn: LES	KOD
	Check	One)	THE NAME OF	Transfer	
<u> </u>	Water Soil/S	ediment		Shp To	
© Porional Office VEOSM	10 m				A. A. A.
(5) Regional Office: YELSML Sampling Personnel:	1 0	ple collected sp used and mark v	occify num	bes	
9 7 K	on each bottle			Z. Maries	
On (Name)		off and the state of the state	القرامية العالم المالية العالم المالية (1 عالم 1 عالم 1		
103-0750-3000		Number of Containers	Approxi Total Vol		
(Phone)	Water	7.	·	3000	
Sampling Date:	(Extractable) Water	+			
(Begin) (End)	(VOA)				
Shipping Information ,	Soil/Sediment (Extractable)	1	80		
FED EX	Soil/Sediment	2	♦ 3		
Name of Carner	(VOA)		O 0	-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
6 12 87	Other			S. C.	
Date Shipped:	(12) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	র্থ্য হও সাক্ষাগ্রন্থ (১৮ চন	ejyn arti.	€-> द्यः	
2832004442		क्षण वस्त्रक व्यक्षकर्तुः स्टब्स	Parties &	तर्ज अस्त	
Airbill Number:	The Hard State of the Control of the	sak. Impos Ario eti not	Sign		
8 Sample Description	ago ten til norm eg Alba elade			Location	
Surface Water	_ Mixed Media				
Ground Water	_ Solids	**************************************	بين آن ا موران مين المساورات		
	Other (specify)	30			
	Aner (specify)				
	eesi aar				



AH 1/2

100	CHARLI	CO TIM	IIIC NEP	Onl	- 13 Ag
1 -	Number:	② SAMPLI	CONCENTRATI	ON OS	ip To:
	110	/ / .	(Check One)	NO.	XICON INC
Sample	Site Name/Code	Lo M	w Concentration edium Concentrati	on BA	ton Rouse A
CIBA	-GEIGY		The state of the s		LEE KINN
			E MATRIX ck One)	A DYSE	
		→ Wa	ter I/Sediment	Ship	
(C) Po ⇒i →	NECCAL	+			
	nal Office: VERSM Personnel:		ample collected sp rs used and mark v	occify number	
2.12	u.k	on each bot	tle.		
7030	(Name) 50 -3000	SE SUICE SE	Number of Containers		
Sampling	(Phone) Date:	Water (Extractable)			
(Begin)	(End)	Water (VOA)			
7 Shippin	ng Information	Soil/Sedimeni (Extractable)		802.	
FE	∞ Ex	Soil/Sediment (VOA)	a man	8.03	
Nama E	e of Carrier	Other			
Dat	e Shipped:	esting to the state of the stat			
25 327	७५५५ ३	r magali in a bel	na n	auser in the telephone	
Airb	ill Number	•	ie <mark>sele</mark> n Sastas (n. 1. 11 esten 11	Contract Arrange	
® Sample	e Description	respective to the second	Carrier and Anti-	Sample Loca	dien die
		Mixed Media	7		
	ound Water	_ Solids			
Le	actiate Assert	Other (specify	S430		
<u> </u>	80 2 4 86	2 44 C			
	Handling but use by precautions desired	pature) BOLL	CLOUVERICE		
10 Table 2	10 km				

US ENVIRONME	NTAL PROTECTION	AGENCY HWIS	m.p'e Manager	cent Office 1	. et. Romania	
ORGANI	CS TRAF	FIC REP	ORT			35
1) Case Number: 7410 Sample Site Name/Code	SAMPLE (Low Medi	Concentration ium Concentrati	ON O	Ship To: OXICON	Yi 🐣 🔭	A
CIBA - GEIGY		MATRIX One)	All the second s	marier p To:	Kas	
© Regional Office: YERSAL Sampling Personnel: Name: 3530	6 For each sam of containers on each bottle	used and mark v s. Number of	Approximate			
(Phone) Sampling Date: 6 1 6 14 (Begin) (End)	Water (Extractable) Water (VOA)	Containers	Total Volume			
③ Shipping Information	Soil/Sediment (Extractable) Soil/Sediment (VOA)	arent j	802.			
Name of Carrier 6 19 87 Date Shipped:	Other	renentalis				
Airbill Number	्रों के किया कर का स्थाप के किया है। स्थापकी श्रीप्रकार के किया के स्थापकी के स्थापकी की स्रापकी की स्थापकी क	Tun de de la la din de la		P		
Surface Water Ground Water Ground Water	Mixed Media Solids		9 Sample Lo	cations.		
Leachate Translated Special Panels of Special Pa	Calist (specify)	90				

CLONFIERCE

ONMENTAL PROTECTION AGENCY legion i Waste Stangament Division **CHAIN OF CUSTODY RECORD** PROJECT NAME CIBA-GEIGY NO. CON-TAINERS STATION LOCATION X DOWLST REAM SEDIMENT X 3020A-01 X UPSTREAM SEDIMEN K X 30204-02. 16 Received by: (Signature) Date / Time Received by: (Signature) Remarks

U.S. ENVIRONMENTAL PROTECTION AGENCY

CLP Sample Management Office

P.O. Box 818 - Alexandria, Virginia 22313 Phone: 703/557-2490 - FTS/557-2490

SAS Number 3020 - A

SPECIAL ANALYTICAL SERVICE **PACKING LIST**

	· · · · · · · · · · · · · · · · · · ·		
Sampling Office:	Sampling Date(s):	Ship To: CAL ANALYTICAL LAB	For Lab Use Only
Sampling Contact: DENNIS (JIUSTRA (name)	Date Shipped:	2544 INDUSTRIAL BLVD W SACREMENTO, CA	Date Samples Rec'd:
703-750-3000 (phone)	Site Name/Code: CIBA - BEIGY	95691 Attn:	Received By:
Sample Numbers	i.e., Analysis	ple Description , Matrix, Concentration	Sample Condition on Receipt at Lab
1. 3020A - 01 2. 3020A - 02	DIOXIN/FURAN,	SEDIMENT LOW	Carter of Carter
3 4 5			
6			
9.			• *
1			·
2			
5			
7.			
9.			

For Lab Use Only

CHAIN OF CUSTODY RECORD				<u>"</u> }-		_		San Anna Control Control
### CIRA - GEIGY NO. OF CONTRACTOR ### \$ \$ STATION LOCATION TAINERS STATE TIME \$ STATION LOCATION TAINERS STATE TIME \$ \$ STATION LOCATION TAINERS STATE TIME \$ \$ STATION LOCATION TAINERS STATE TIME \$ STATION LOCATION TAINERS STATE TIME \$ STATION LOCATION TAINERS STATE TIME \$ STATION LOCATION TAINERS REMARKS REMA		The File	13		. 11 1			
### CIBA - GEIGY NO. OF CONTROL TIME \$ \$ STATION LOCATION ***STATION LOCATION** ***STATION LOCATION		W. W						
CONTACT THE S STATION LOCATION NO. OF CONTAINERS		CV by		Date	Time		temeri	
CON			Relian			Signatur	d	
	3 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2			1		**************************************		
			Relinq	ulshe	d by: /	Signatur	W	
PROJECTIVAME			×			1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	3. T	
	SOME ATE OF GUIDS			*		, ,	191	
PROLING PROJECTIVAME		1.1.3.	 -	111 .		+-		
PROJECT-NAME		1	 	-			 	
H	Emily have been provided the second of the s		} 	\dashv			1.	
PROJECTIVAME	TO TO THE POST OF THE PARTY OF	1771	 -	-	- _×	+-	-	
PROJECT NAME		1	+				<u> </u>	
		X	+					MRD 064 8294
REMARKS STATIO DATE TIME 8 STATION LOCATION STATE GIZET SAME STATE STATE STATION LOCATION NO. OF CONTAINERS STATION LOCATION I X MAD 061 83004 SAME GIZET SAME SAME SAME S		1	X					MAD 152 8295
REMARKS TAINERS TAI	SD2 6/11/0 1130	1	$\overline{}$					
PROJECT NAME ALL STAND DATE TIME \$ STATION LOCATION REMARKS TAINERS STAND DATE TIME \$ STATION LOCATION AND STAND DATE TIME \$ STATION LOCATION NO. OF CONTAINERS TAINERS TAINERS MAD 061 83 004 14 14 15 15 3 82 19	503 PINEU1842	ı	1				1	
HOLDA -GEIGY NO. OF CONTAINERS STAND DATE TIME & STATION LOCATION STAND DATE TIME & STATION LOCATION I X MAD Obl 83 DD	BOTTO INTO X RACKGEOUSED	1			_	\top	+	
HALERS TIME & STATION LOCATION NO. OF CONTAINERS STAND DATE TIME & STATION LOCATION REMARKS		1	1	\dashv	_	+	+	
HHU CIBA - GEIGY NO. SMALERS: (CHAPTER) CON REMARKS	558 (181 080 X X	1	T		'	1	/	MAN Ohl so make the
HHU CIBA - GEIGY NO. SMALERS: (CHAPTER) CON REMARKS	STAINO DATE TIME 8 STATION LOCATION	TAINERS	18		//	//	//	
LU CIOA CEICV		1	/	/ /	Y /	//		REMARKS
MU CIOA CEICV	ASMPLERS (PARAMELLA)	OF				/ /	//	
WERGL NO. PROJECTNAME	144 CISK - GEIGY	NO.			1/2	/ /	//	////
	PROJECTNAME				7	7	7	////



MAD 065

Ciga - GEIGY	SAMPLE CONCENTRATION (Check One) Low Concentration Medium Concentration (Check One) Water Soil/Sediment	Ship To: CANBRIDGE ANALYTICAL BOYNN MA Attn: WARLE STUDEN Transfer Ship To:
Sampling Office: \\S\Z\X\\ Sampling Personnel: (Name) \\ (Phone) \\ Sampling Date: (Begint) \(\begin{array}{c} \begin{array} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}	Shipping Information: Name Of Carrier: FED EX Date Shipped: 61577 Airbill Number: 283 200 4453	Sup 10:
Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Solids Other (specify) MATCHES ORGANIC SAMPLE NO.	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	
	REGIONAL OFFICE FILE COPY	



Sample Number

1 Case Number: NIO Sample Site Name/Code CIBA-GEIGY	(Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	(a) Ship To: CANGRIDGE KNAUXTICAL BOSTON, MA Attn: MARIE STUDIOL Transfer Ship To:
Sampling Office: VECSAR Sampling Personnel: (Name) (Phone) Sampling Date: (Begin) (End) (End)	Shipping Information: Name Of Carrier: ED EX Date Shipped:	
Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Solids Other (specify) MATCHES ORGANIC SAMPLE NO.	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	
	REGIONAL OFFICE FILE COPY	



MAD 069

1 Case Number: 7410 Sample Site Name/Code CABA-GE 16Y	Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	Ship To: AMBRIDGE KUMUMICAL TOTON, MA Attn: MARIE STUDER Transfer Ship To:
Sampling Office: VERSAL Sampling Personnel: (Name) 703-(250-3050) Sampling Date: (Begin) 611 (End) 611	Shipping Information: Name Of Carrier: FED EX Date Shipped: 61587 Airbill Number: 9832504453	
Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Solicis Other (specify) MATCHES ORGANIC SAMPLE NO.	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	
	REGIONAL OFFICE FILE COPY	



INORGANICS TRAFFIC REPORT

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office

MAD 067

(Case Number: Sample Site Name/Code CLDA — GE GY Sample Site Name/Code CLDA — GE GY Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment Transfer Ship Tot. Sampling Office: VERSAR (Name) (Name) (Phone) (Phone) (Phone) Sampling Date: (Begin) 64 (End) 64 (End) 64 (End) 64 (Shipping Information: Name Of Carrieg: Ship Tot. (Airbill Number: 283 150 445) (Check One) Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Soikis Other (specify) MATERIAL (Check One) Surface Water Check Analysis required Total Metals Cyanide			And the state of t
Sampling Personnel: Name Of Carrier:	Sample Site Name/Code CIBA-6E[6Y	(Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	(1) Ship Tot CAMBRIDGE ANALYTICAL BOSTON, MA Attn: MARK STIRER Transfer
Sample Description: (Check One) Surface Water Ground Water Leachats Mixed Media Solids Other (specify) Mark Volume Level On Sample Bottle Check Analysis required	Sampling Personnel: (Name) (Phone)	Shipping Information: Name Of Carrier: Date Shipped: 615 87	
REGIONAL OFFICE FILE COPY	Sample Description: (Check One) Surface Water Ground Water Leschata Mixed Media Solids Other (specify) MATCHES ORGANIC SAMPLE NO.	On Sample Bottle Check Analysis required Total Metals Cyanide	

MAD 068

Case Number: 7410 Sample Site Name/Code CIBA - GEIGY	(Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	(a) Ship To: CAMBRIGE ANALYTICAL BOSTON, MA Attn: MARIE STUDER Transfer Ship To:
Sampling Office: VERSAL Sampling Personnel: (Name)	Shipping Information: Name Of Carrier: FED EX Date Shipped: 6 15 87 Airbill Number: 283 260 4453	
Sample Description: (Check One) Surface Water Ground Water Learnate Mixed Media Solaris Other (specify) MATCHES ORGANIC SAMPLE NO.	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	
A good	REGIONAL OFFICE FILE COPY	



		
CARA-GEIGY	(Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	Attn: Transfer Ship To:
Sampling Office: VERSAL	Shipping Information:	
(Name)(Phone)(End)(End)	Name Of Carrier: FED EX Date Shipped: 6/5/87 Airbill Number: 2832004453	
Sample Description:		
Check One) Check One) Surface Water Ground Water Leachate Mixed Media Solaris Other (specify) MATCHES ORGANIC SAMPLE NO	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	
Carlos Company	REGIONAL OFFICE FILE COPY	



Sample Number
MAD 152

CIBA— GEIGY	(Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	Transfer Ship To: CAMERINGE AMERICAL BOSTON MA Attn: MARK STUDER Transfer Ship To:
Sampling Office: VERSAR Sampling Personnel: (Name)	Shipping Information: Name Of Carrier: ED EX Date Shipped: 6/15/87 Airbill Number: 28333594453	
Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Solids Other (specify) MATCHES ORGANIC SAMPLE NO	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	
· 特殊性	REGIONAL OFFICE FILE COPY	



INORGANICS TRAFFIC REPORT

MAD 153

1 Case Number: 1410 Sample Site Name/Code CIBA - GEIGY	SAMPLE CONCENTRATION (Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	Attn: MARIE STUDER Transfer Ship To:
Sampling Office: VERSAL Sampling Personnel: (Name) (Phone) Sampling Date: (Begin) 6 12 (End) 6 12	Shipping Information: Name Of Carrier: FED EX Date Shipped: 6/15/87 Airbill Number: 2833504453	
Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Solids Other (specify) MATCHES ORGANIC SAMPLE NO.	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	
And the second s	REGIONAL OFFICE FILE COPY	



INORGANICS TRAFFIC REPORT

MAD 064

	the contract of the same	and the second s
CIBA - GEIGY	(Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	O Ship To: CAMBADGE MALYTICA BUSTON, MA Attn: MARKE STUDER Transfer
Sampling Office: VERSER Sampling Personnel: (Name) D. Turallo (Phonel DS+7502 3000 Sampling Date: (Begin) Oll (End) 6 11	Shipping Information: Name Of Carrier: FEN EX Date Shipped: 615 87 Airbill Number: 283 2504453	Ship To:
Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Solids Other (specify) MATCHES ORGANIC SAMPLE NO.	Mark Volume Level On Sample Bottle Theck Analysis required Total Metals Cyanide	
1. No. 2. The control of the control	RECIONAL OFFICE FILE CODY	and the second s



MATCHES ORGANIC SAMPLE NO.

INORGANICS TRAFFIC REPORT

US ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office

MAD D61

Trong International City		
1 Case Number: 7410 Sample Site Name/Code CIRA - GEISY	SAMPLE CONCENTRATION (Check One) Low Concentration Medium Concentration (Check One) Water Soil/Sediment	O Ship To: CAMBEDGE ANALYTICA BOSTON MA Attn: MARIE STUDEN Transfer
		Ship To:
Sampling Office: VERSM Sampling Personnel: (Name) D. Turk (Phone) NOG-750-3000 Sampling Date: (Begin) 6 9 (End) 6	Shipping Information: Name Of Carrier: ESD EX Date Shipped: 415 87 Airbill Number: 2832004453	
Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Solids Other (specify)	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	

REGIONAL OFFICE FILE COPY



MAD 052

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Case Number: 7418 Sample Site Name/Code CIBA - GEIGY	(Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	O Ship To: CAMBRIDGE AMALYTIC BUSTON, MA Attn: MARKE STUDER Transfer
Sampling Office: VERSAM Sampling Personnel: (Name) (Phone) Sampling Date: (Begin) (End)	Shipping Information: Name Of Carrier: FED EX Date Shipped: 415 87 Airbill Number: 283200 4453	Ship To:
Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Solids Other (specify) MATCHES ORGANIC SAMPLE NO.	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	
	REGIONALOFFICEFILECOPY	



Solida

(specify)

MATCHES ORGANIC SAMPLE NO.

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office

3 SAMPLE CONCENTRATION (1) Case Number: (4) Ship To: (Check One) Sample Site Name/Code Low Concentration **Medium Concentration SAMPLE MATRIX** (Check One) Water Soil/Sediment Transfer 📑 🎶 Ship To: 🖑 (s) Sampling Office: 6 Shipping Information: Sampling Personnel: Name Of Carrier: (Name) (Phone) Date Shipped: Sampling Date: Airbill Number: 253 (Begin) (End) Sample Description: (8) Mark Volume Level (Check One) On Sample Bottle Surface Water : Check Analysis required Ground Water Total Metals Leachate Mixed Media ___ Cyanide

REGIONAL OFFICE FILE COPY



Scriple Number NAD 150

1) Case Number: 7410 Sample Site Name/Code: CBA-GEIGY	(Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	(a) Ship To: CANBLIDGE AWALYTKAL BIDSTON, MA Attn: MARK STUDGE Transfer Ship To:
Sampling Office: VERSAR Sampling Personnel: (Name)	Shipping Information: Name Of Carrier: FED EX Date Shipped:	
Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Solids Other (specify) MATCHES ORGANIC SAMPLE NO.	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	
e de la companya de l	REGIONAL OFFICE FILE COPY	



MAD 149

CIBA-GEIGY	(Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	O Ship To: CAMBRIDGE HANLYTKAL BOSTON, MA Attn: MARIE STUDER Transfer Ship To:
Sampling Office: VERSM. Sampling Personnel: (Name) (Phone) Sampling Date: (Begin) (End)	Shipping Information: Name Of Carrier: FED EX Date Shipped: 61581 Airbill Number: 2-831004463	
Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Solids Other (specify) MATCHES ORGANIC SAMPLE NO.	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	
· · · · ·	REGIONAL OFFICE FILE COPY	



Cose Number: HID Sample Site Name/Code: COBA-GEIGY	(Check One) Low Concentration Medium Concentration SAMPLE MATRIX (Check One) Water Soil/Sediment	(a) Ship To: CAMBR DGE AMLYTICA BOSTN, MA Attn: MARIE STUDE2 Transfer Ship To:
Sampling Office: VERSAC Sampling Personnel: (Name) 1034 750-300 Sampling Date: (Begin) 611 (End) 611	O Shipping Information: Name Of Carrier: FOR EX Date Shipped: 457 Airbill Number: 23204453	
Sample Description: (Check One) Surface Water Ground Water Leachate Mixed Media Solids Other (specify) MATCHES ORGANIC SAMPLE NO	Mark Volume Level On Sample Bottle Check Analysis required Total Metals Cyanide	
į	REGIONAL OFFICE FILE COPY	